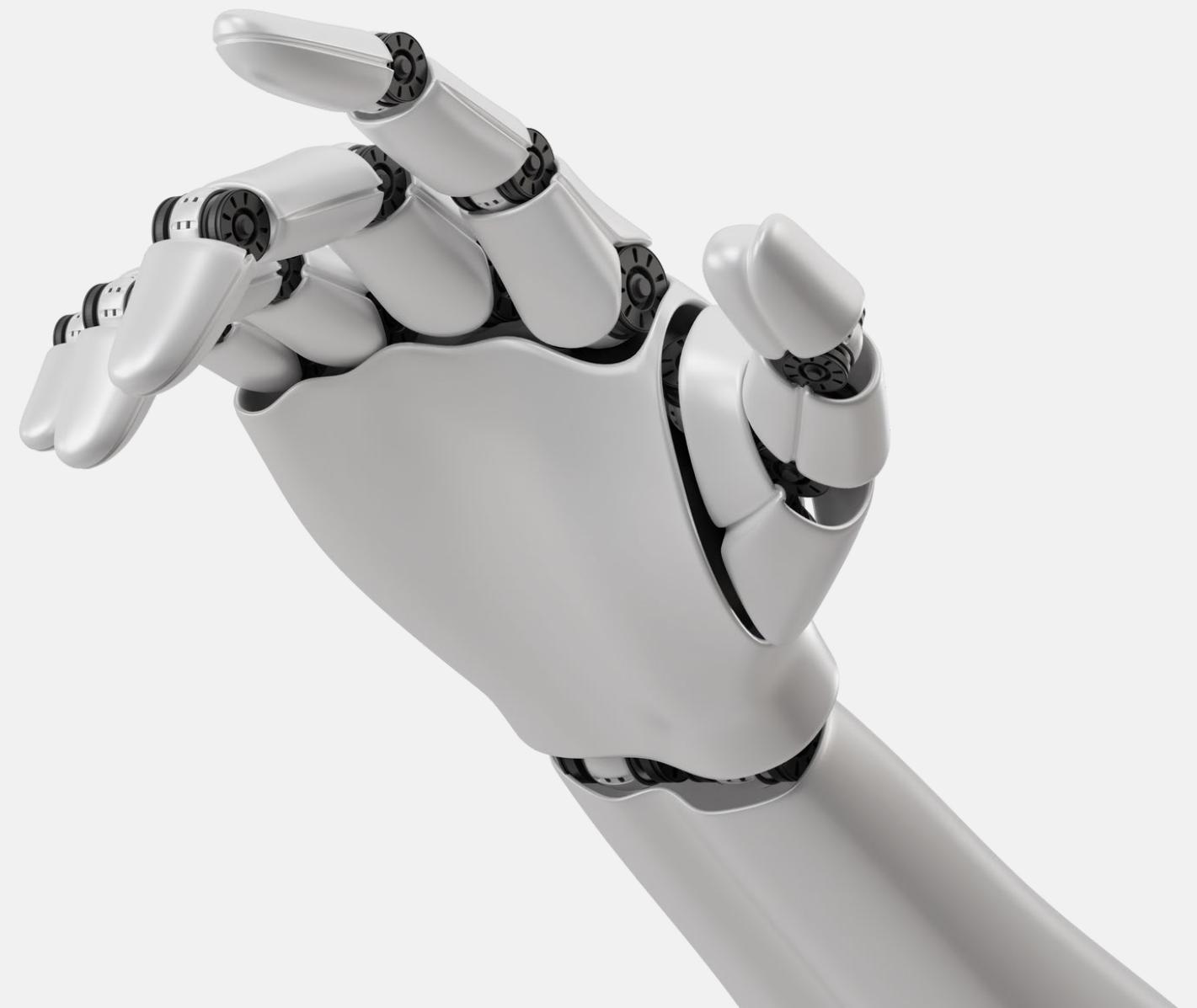


# Artificial Intelligence Overview





You already  
met AI today



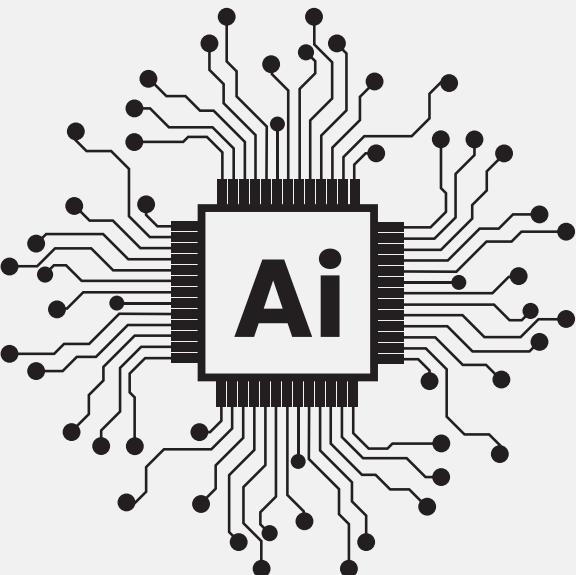
# Fun Fact

- 8:00 AM | **Wake Up Alarm**
- 8:30 AM | **Checking the Weather**
- 9:00 AM | **Social Media Scroll**
- 9:30 AM | **Google Maps to Huawei Office**
- 10:00 AM | **You Took a Selfie**
- 10:30 AM | **You “GPTed” Something**



Machine Learning

# What is Artificial Intelligence?

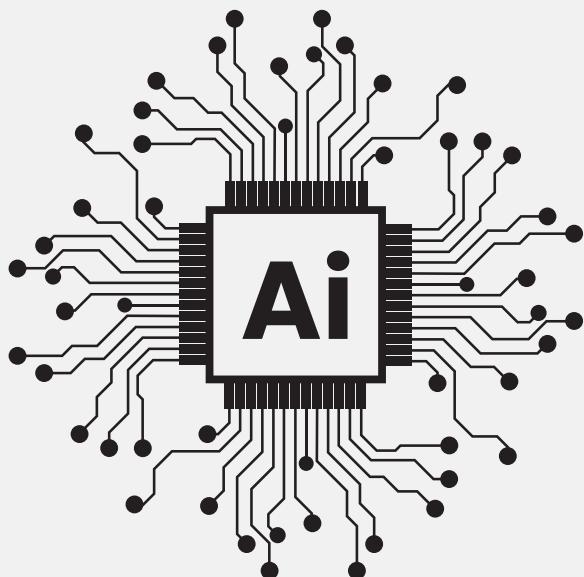




Machine Learning

Deep Learning

# What is Artificial Intelligence?



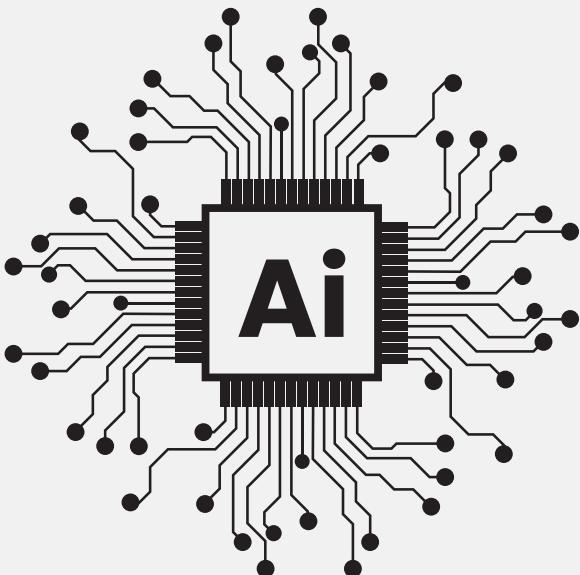


Machine Learning

Computer Vision

Deep Learning

# What is Artificial Intelligence?





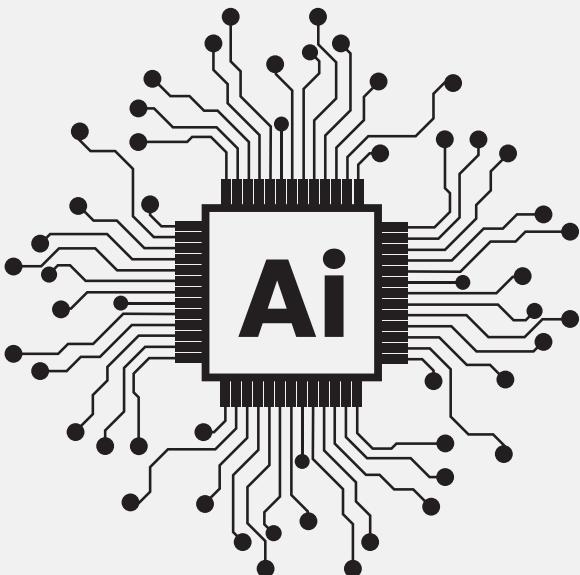
Machine Learning

Computer Vision

Deep Learning

Generative AI

# What is Artificial Intelligence?





Machine Learning

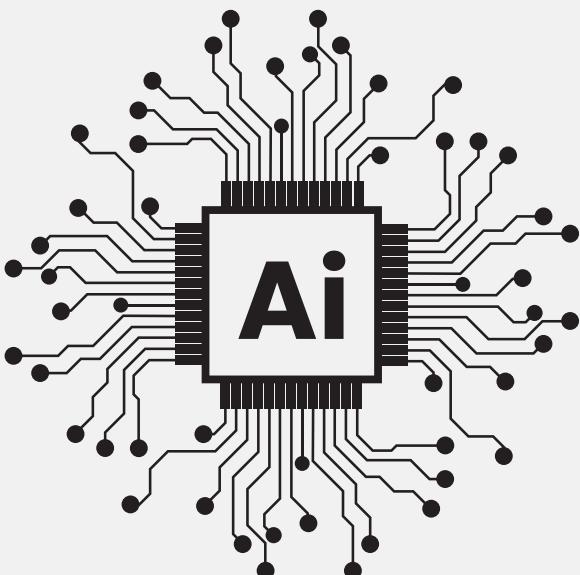
Computer Vision

Reinforcement Learning

Deep Learning

Generative AI

# What is Artificial Intelligence?





Machine Learning

Computer Vision

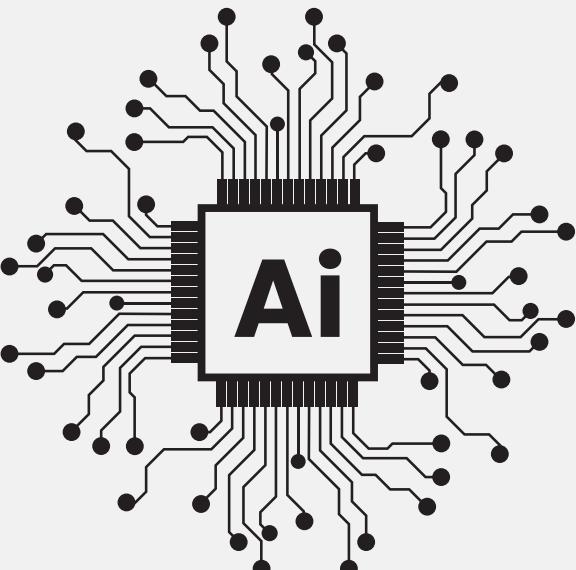
Reinforcement Learning

Robotics

Deep Learning

Generative AI

# What is Artificial Intelligence?





Machine Learning

Computer Vision

Reinforcement Learning

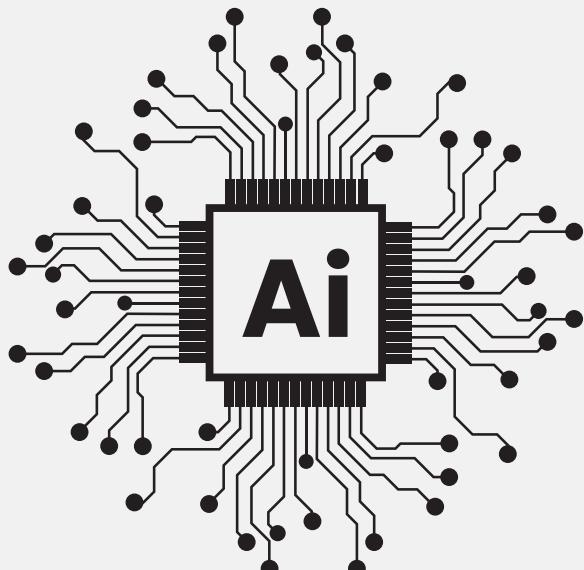
Robotics

Deep Learning

Generative AI

Natural Language Processing

# What is Artificial Intelligence?





Machine Learning

Computer Vision

Reinforcement Learning

Robotics

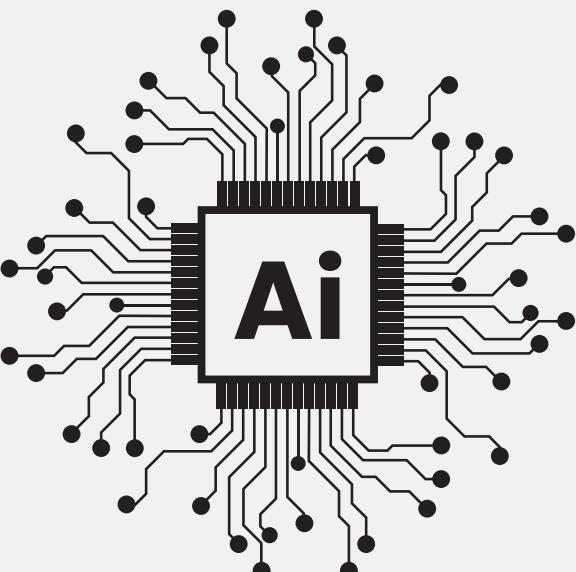
Deep Learning

Generative AI

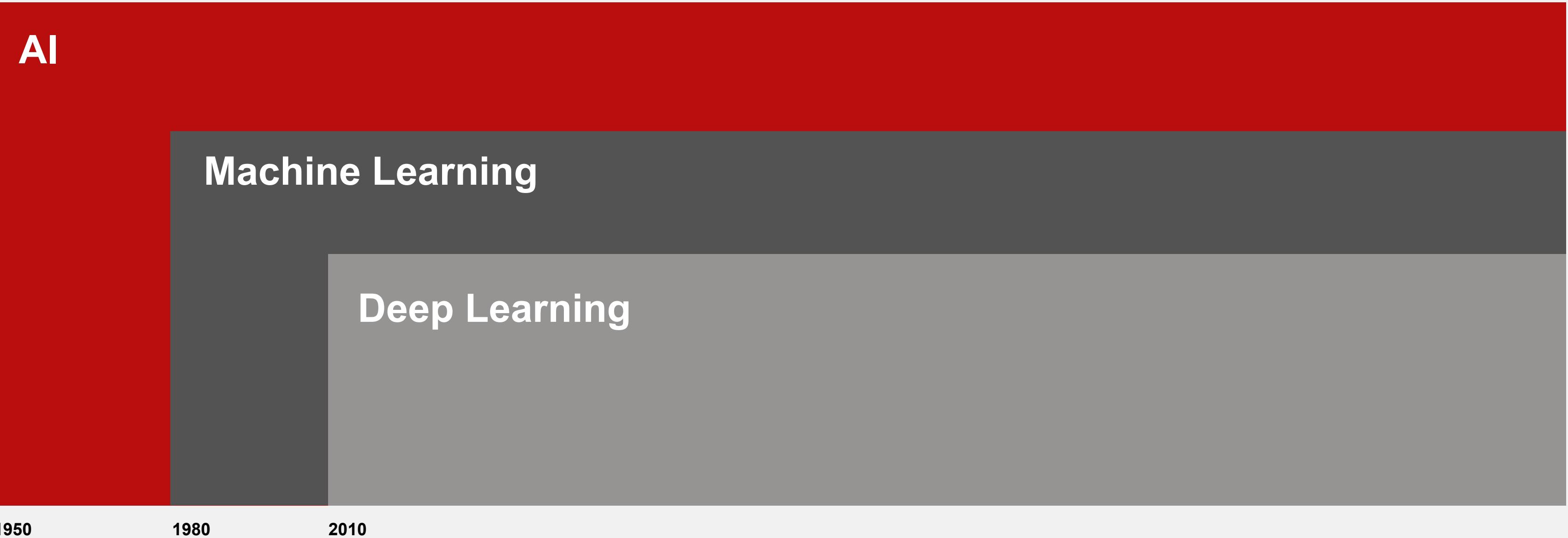
Natural Language Processing

Large Language Models

# What is Artificial Intelligence?



# Relationship between AI, Machine Learning and Deep Learning





# Major Schools of AI

## Symbolism

AI that thinks using logic and rules

## Connectionism

AI that learns like the human brain

## Actionism

AI that learns by interacting with the world



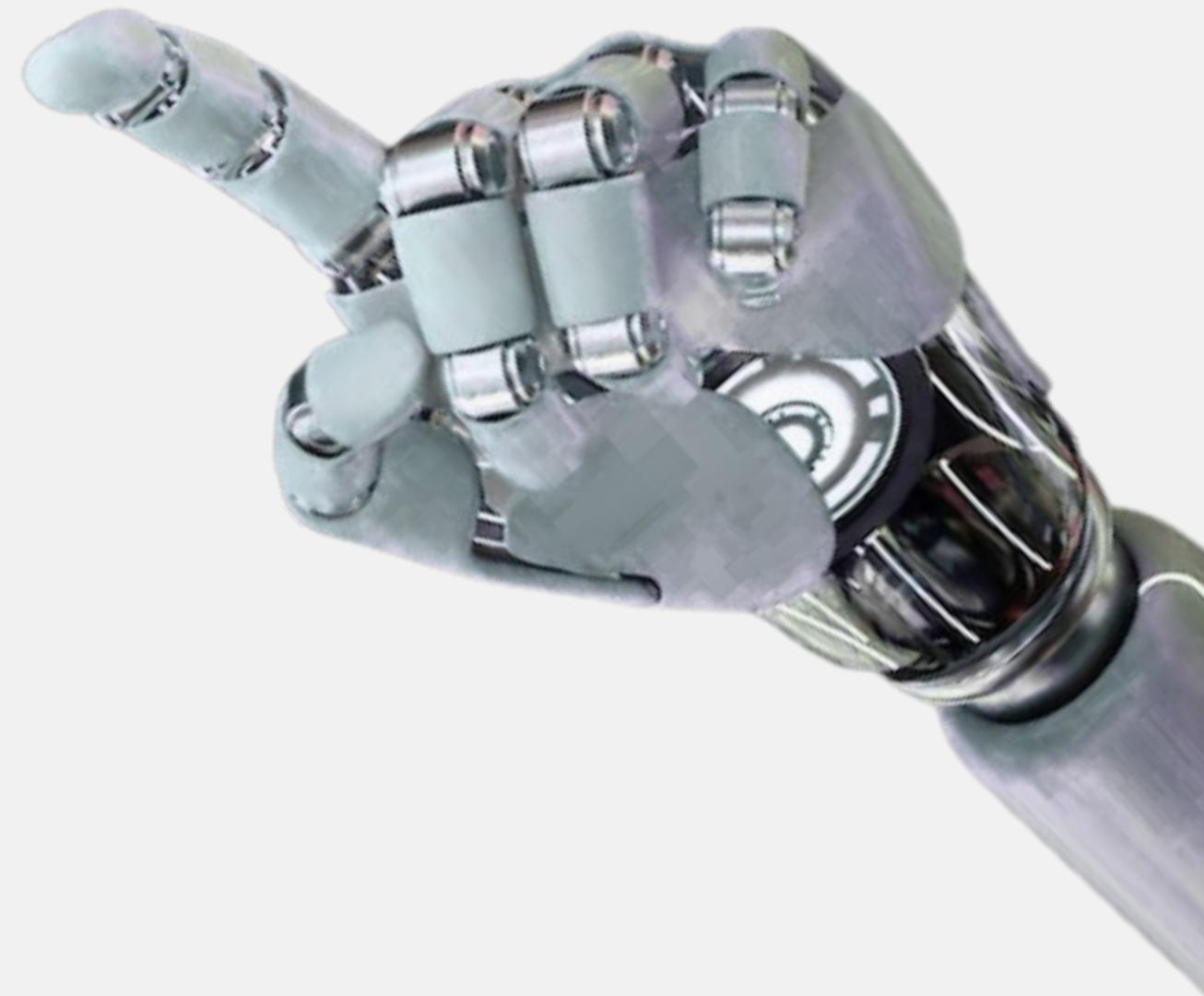
# Types of AI

## **Strong AI**

Machines that replicate human functioning, such as reasoning and problem solving.

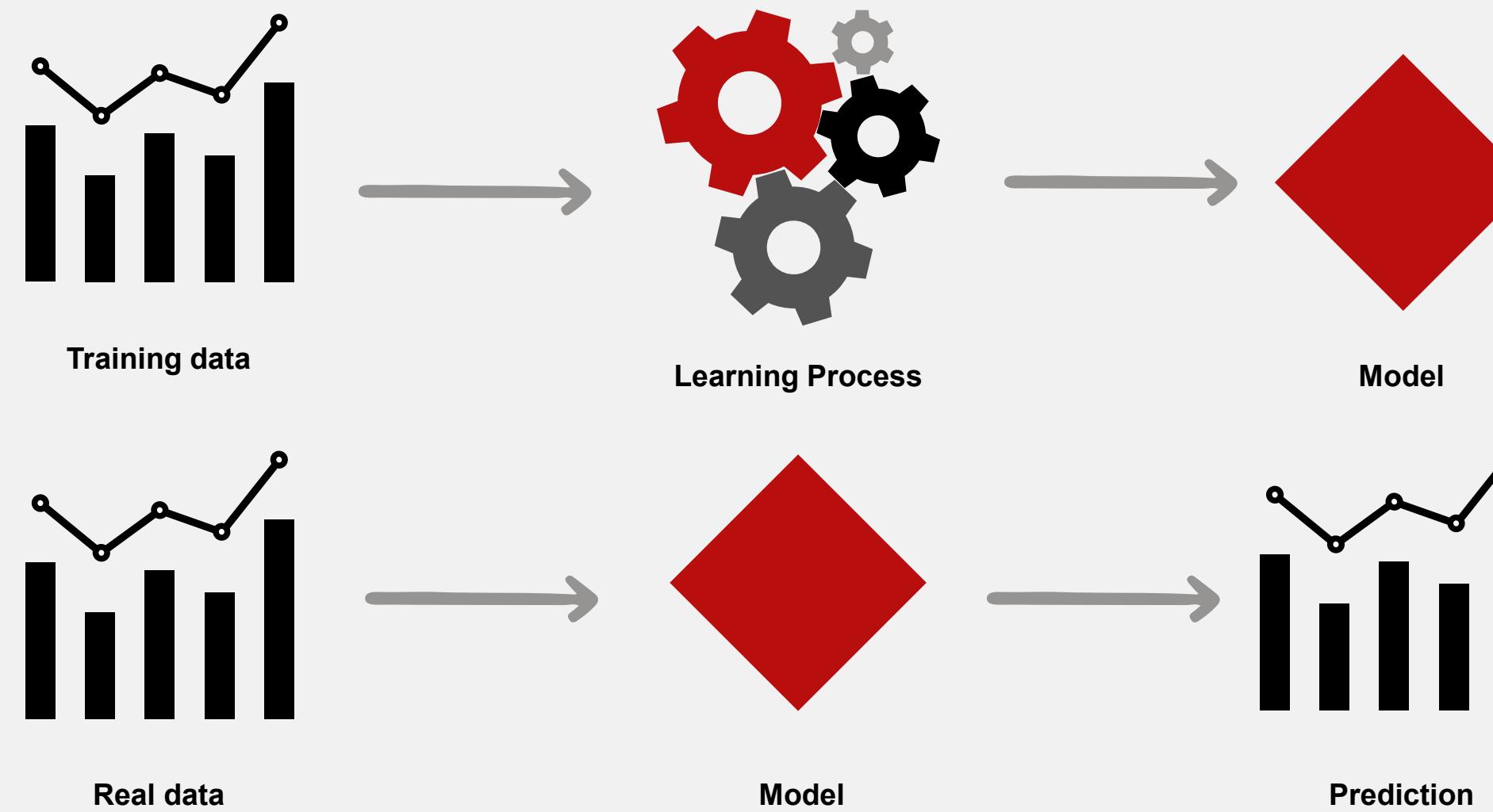
## **Weak AI**

Machines that perform specific tasks, but rely heavily on human interference.





# What is Machine Learning?

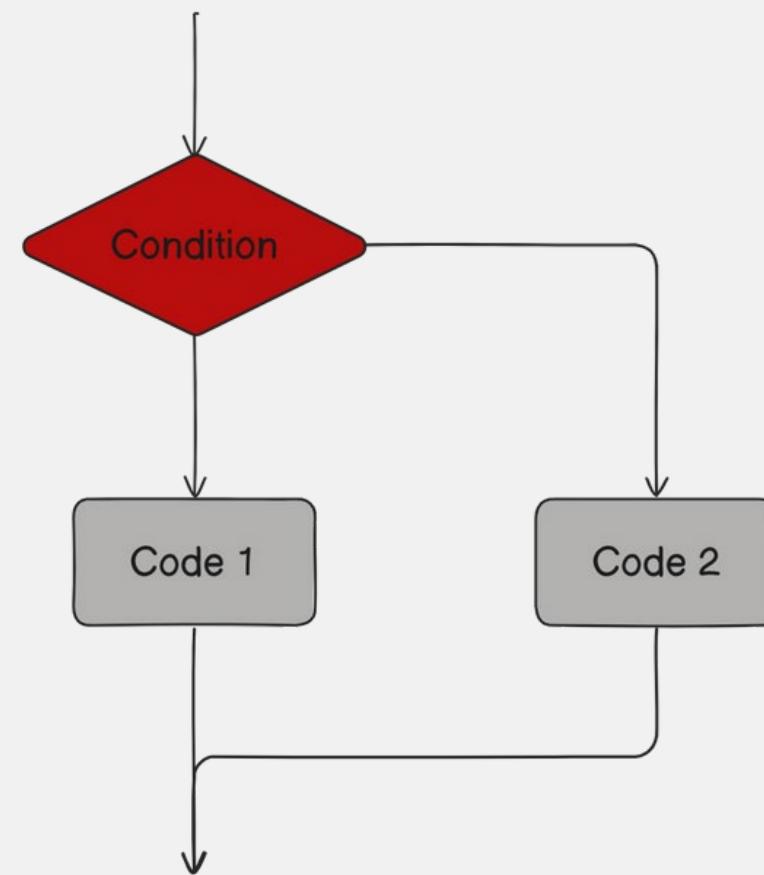




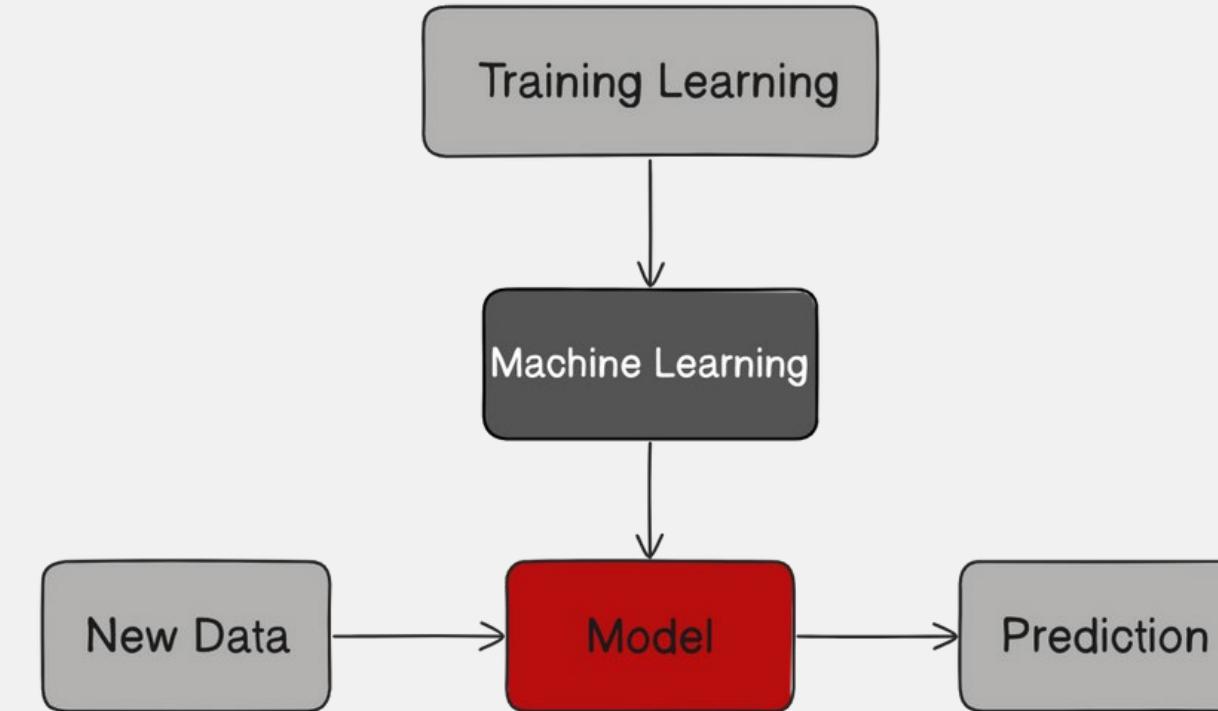
# Wait a minute...

Is Machine Learning always the right answer?

## Rule-based Method



## Machine Learning





# Types of Machine Learning

## Supervised Learning

The model learns from labeled data to make predictions or classifications

## Unsupervised Learning

The model finds patterns and groups in data without any labels

## Semi-supervised Learning

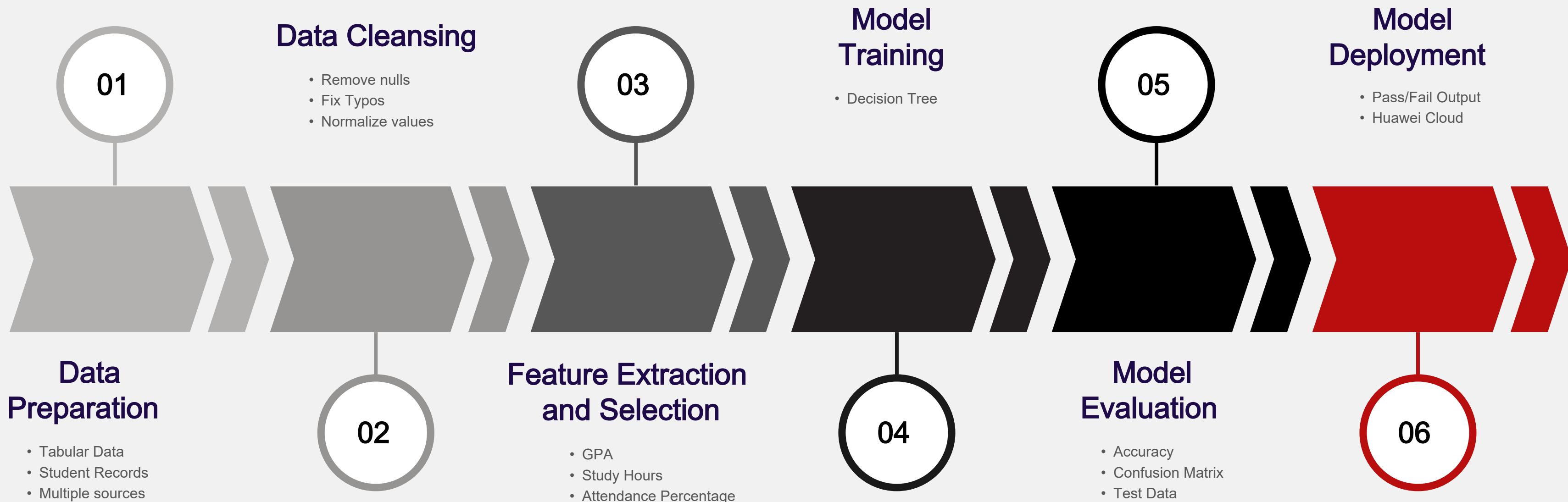
The model learns from a small amount of labeled data combined with a large amount of unlabeled data

## Reinforcement Learning

The model learns by interacting with an environment and receiving rewards or penalties for its actions

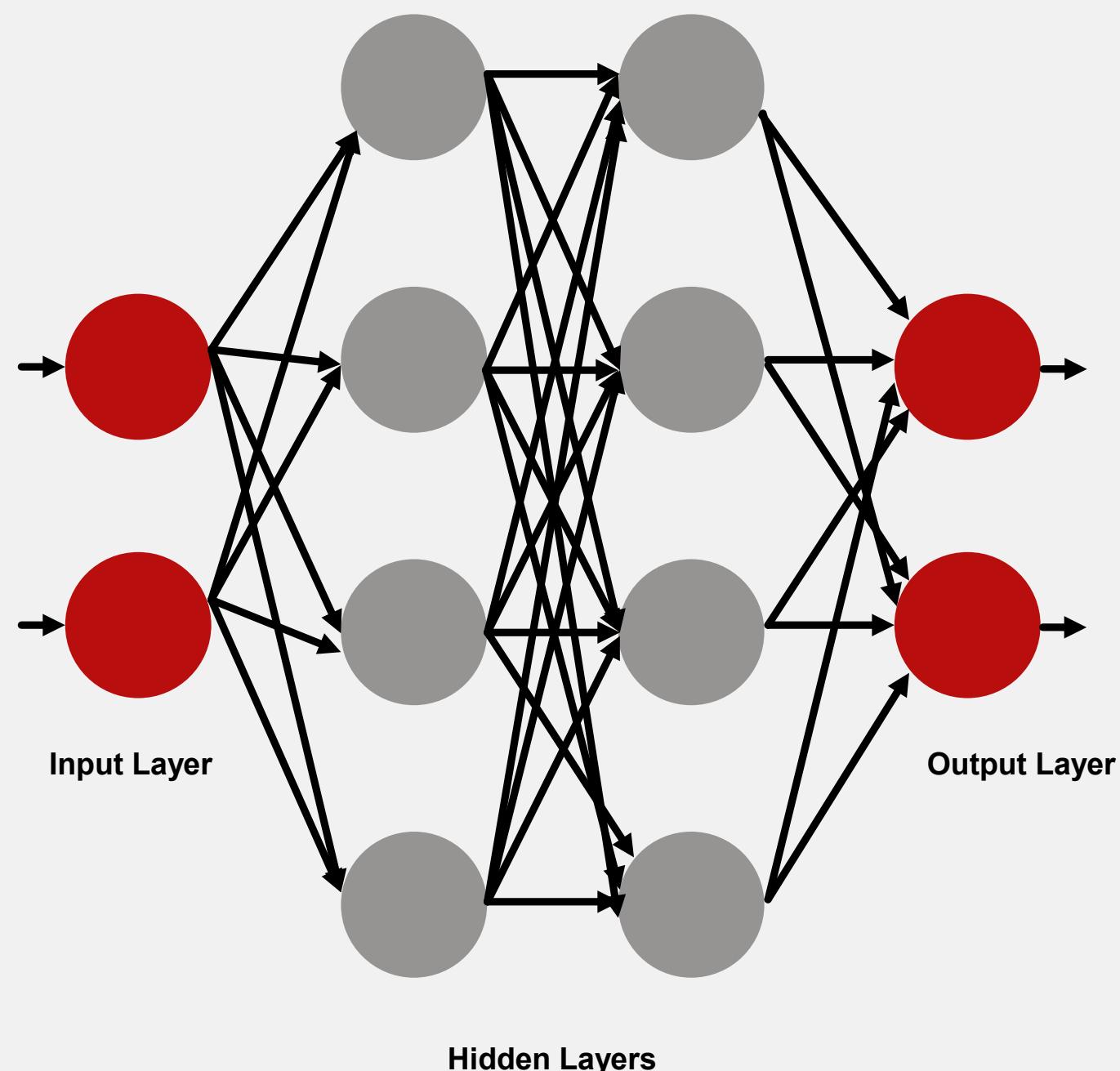


# Machine Learning Process





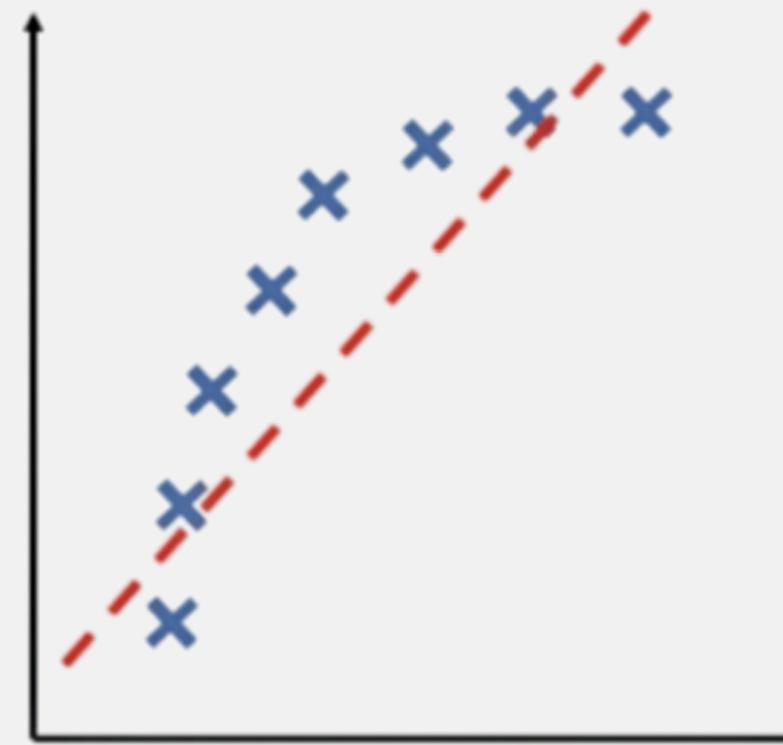
# What is Deep Learning?



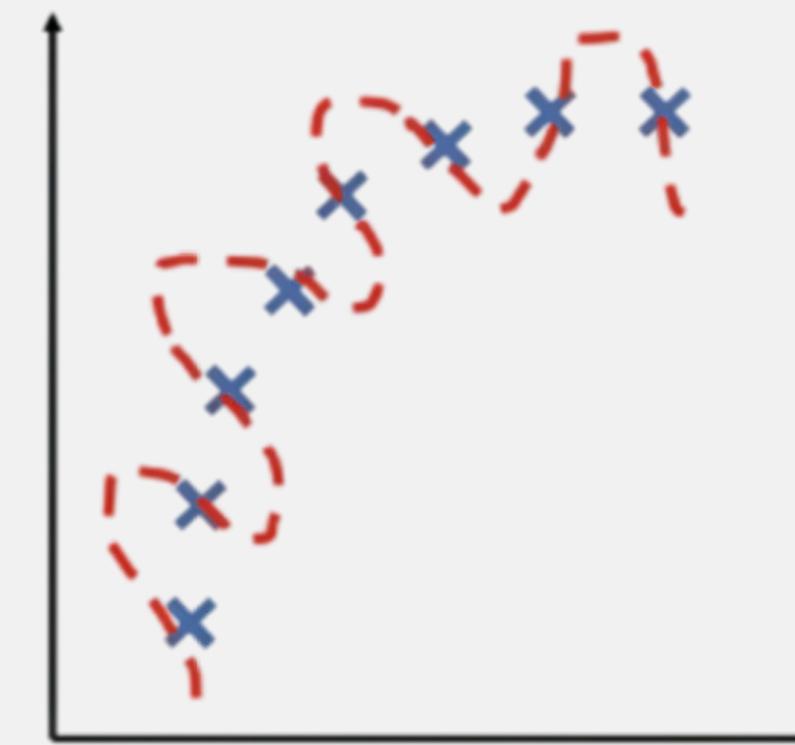


# The other side of AI...

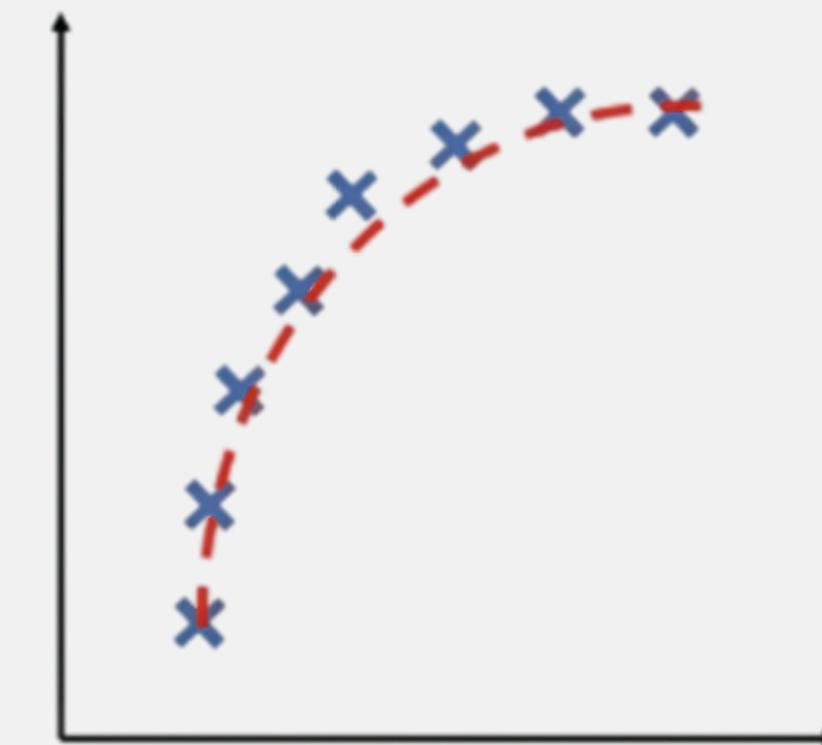
**Underfitting**



**Overfitting**

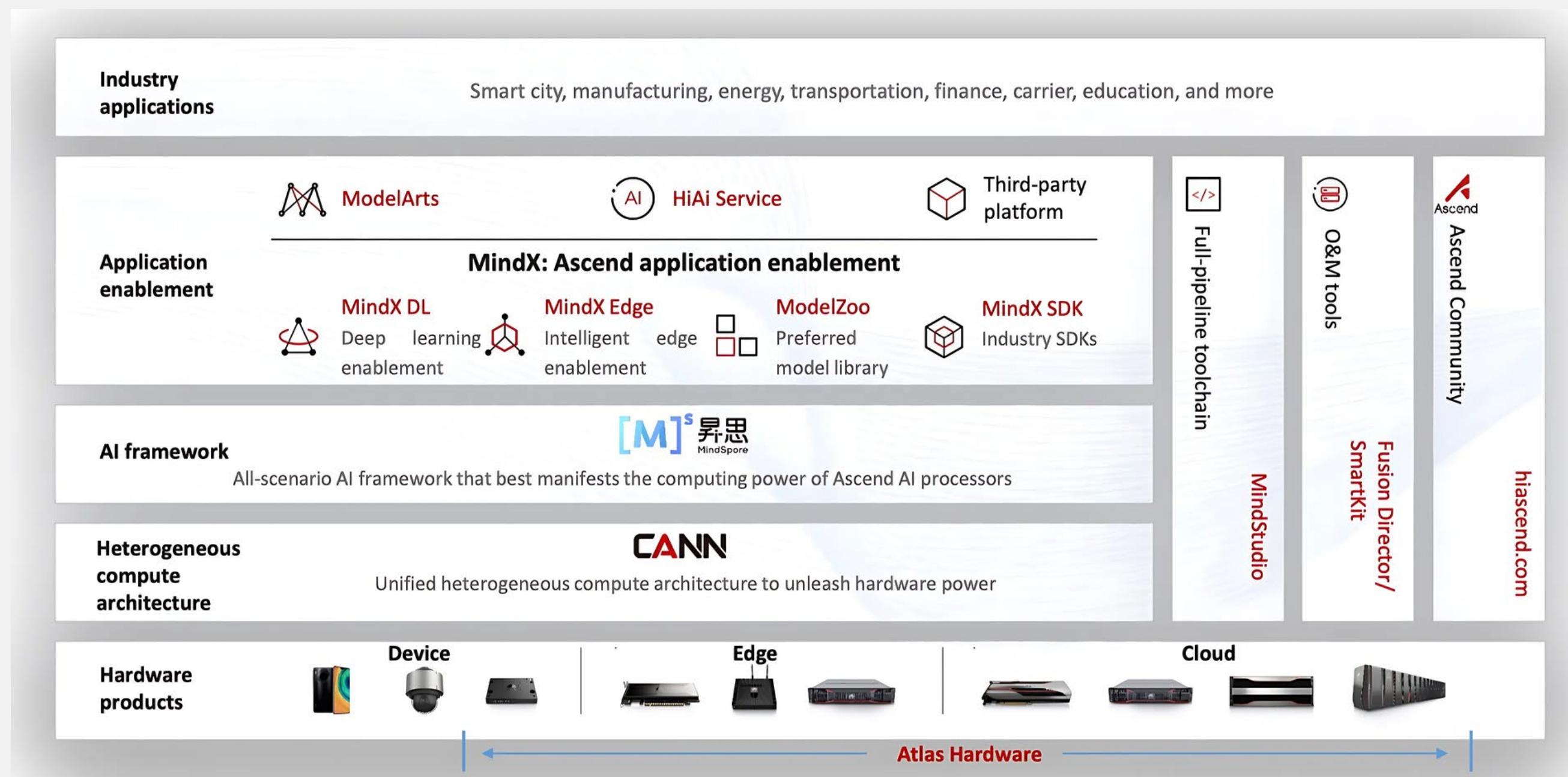


**Ideal Balance**

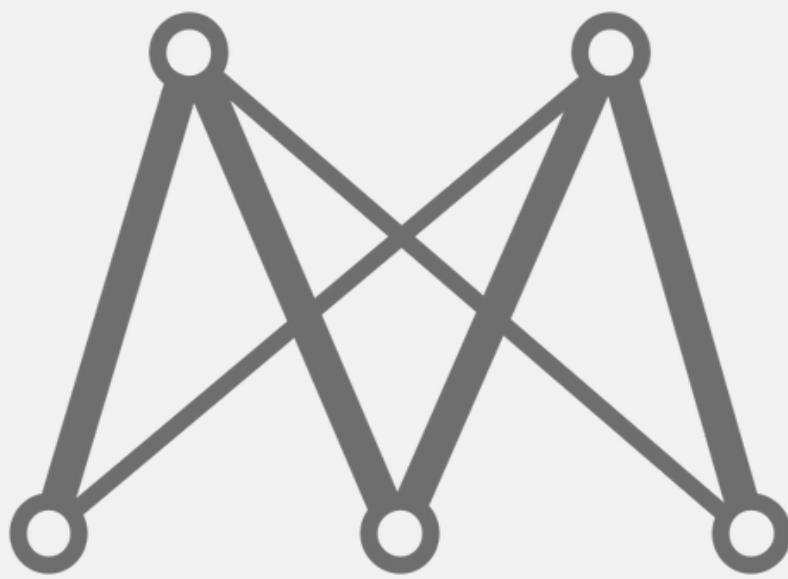




# Huawei Full-Stack All-Scenario AI Solution



# ModelArts Live Demo



# Thank you.